

PATENT

12273-3

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:	)	Group Art Unit: to be assigned
LANGRIDGE, William H.R. et al.	)	Examining Attorney:
Serial No.: to be assigned	)	to be assigned
Filed: January 29, 2001	)	
For: Transgenic Plant-Based Vaccines	)	Pasadena, California

12273-3  
09/771536  
01/29/01

STATEMENT IN ACCORDANCE WITH 37 CFR 1.821(c) and (e)

BOX PATENT APPLICATION  
Assistant Commissioner for Patents  
Washington, D. C. 20231

Dear Sir:


Enclosed with this Statement is the above-identified United States application, including a Sequence Listing and a computer readable form of the sequence listing filed herewith in accordance with 37 CFR 1.821(c) and (e).

**37 CFR 1.821(f)** - I hereby state that the content of the paper and computer readable copies of the Sequence Listing submitted herewith in accordance with 37 CFR 1.821(c) and (e),

"EXPRESS MAIL" mailing label number **EL4422633472US**

Date of Deposit **January 29, 2001**

I hereby certify that this paper is being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 C.F.R. § 1.10 on the date indicated above and is addressed to BOX PATENT APPLICATION, Assistant Commissioner for Patents, Washington, D. C. 20231.

  
Signature

ELAINE PORTER  
Typed or Printed Name of Person Mailing Paper or Fee

PATENT

12273-3

respectively, are the same.

The Commissioner is hereby authorized to charge payment of any fees associated with this communication to Deposit Account No. 19-2090.

Respectfully submitted,

SHELDON & MAK  
a Professional Corporation

Date: January 29, 2001

By David Farah  
David A. Farah, M.D.  
Reg. No. 38,134

225 South Lake Avenue  
9th Floor  
Pasadena, CA 91101  
626/796-4000

## SEQUENCE LISTING

<110> Langridge, William  
 Yu, Jie  
 Arakawa, Takeshi

<120> Transgenic Plant-Based Vaccines

<130> 12273-3

<140> to be assigned

<141> 2001-01-29

<160> 15

<170> PatentIn version 3.0

<210> 1

<211> 376

<212> DNA

<213> Vibrio cholerae

<400> 1

```

atgattaaat taaaatttgg tgtttttttt acagttttac tatcttcagc atatgcacat      60
ggaacacctc aaaatattac tgatttgtgt gcagaatacc acaacacaca aatacatatcg      120
ctaaatgata agatattgtc gtatacagaa tctctagctg gaaacagaga gatggctatc      180
attactttta agaatggtgc aacttttcaa gtagaagtac caggtagtca acatatagat      240
tcacaaaaaa aagcgattga aaggatgaag gataccctga ggattgcata ttttactgaa      300
gctaaagtcg aaaagttatg tgtatggaat aataaaacgc ctcatgcatg tgccgcaatt      360
agtatggcaa attggc

```

<210> 2

<211> 36

<212> DNA

<213> primer

<400> 2  
gctctagagc caccatgatt aaattaaaat ttggtg 36

<210> 3  
<211> 41  
<212> DNA  
<213> primer

<400> 3  
ctggagctcg ggccccggcc catttgccat actaattgcg g 41

<210> 4  
<211> 391  
<212> DNA  
<213> Vibrio cholerae plus artificial sequence

<400> 4  
atgattaaat taaaatttgg tgtttttttt acagttttac tatcttcagc atatgcacat 60  
ggaacacctc aaaatattac tgatttgtgt gcagaatacc acaacacaca aatacatagc 120  
ctaaatgata agatattgtc gtatacagaa tctctagctg gaaacagaga gatggctatc 180  
attactttta agaatgggtgc aacttttcaa gtagaagtac caggtagtca acatatagat 240  
cacaaaaaa aagcgattga aaggatgaag gataccctga ggattgcata tcttactgaa 300  
gctaaagtcg aaaagttatg tgtatggaat aataaaaacgc ctcatgcgat tgccgcaatt 360  
agtatggcaa attggcccag gcccgggata a 391

<210> 5  
<211> 54  
<212> DNA  
<213> Vibrio cholerae

<400> 5  
atggtaaaga taatatttgt gttttttatt ttcttatcat cattttcata tgca 54

<210> 6  
<211> 24  
<212> DNA  
<213> primer

<400> 6  
accaatacat tacactagca tctg

24

<210> 7  
<211> 27  
<212> DNA  
<213> primer

<400> 7  
gactgagtgc gatattatgt gtaatac

27

<210> 8  
<211> 66  
<212> DNA  
<213> Rotavirus sp.

<400> 8  
gataggttga ctactagaga aattgaacaa gttgaattgt tgaagagaat ttacgataag  
ttgact

60

66

<210> 9  
<211> 60  
<212> DNA  
<213> primer

<400> 9  
gccgagctcg ataagttgac tactagggag attgagcaag ttgagttggt gaagaggatt

60

<210> 10  
<211> 60  
<212> DNA  
<213> primer

<400> 10  
gccgagctca caactcatcc ttctcagaag tcaacttata gtaaatacctc ttcaacaact 60

<210> 11  
<211> 488  
<212> DNA  
<213> *Vibrio cholerae* and Rotavirus sp.

<400> 11  
atgattaaat taaaatttgg tgtttttttt acagttttac tatcttcagc atatgcacat 60  
ggaacacctc aaaatattac tgatttgtgt gcagaatacc acaacacaca aatacatagc 120  
ctaaatgata agatattgtc gtatacagaa tctctagctg gaaacagaga gatggctatc 180  
attactttta agaatgggtgc aacttttcaa gtagaagtac caggtagtca acatatagat 240  
ccacaaaaaa aagcgattga aaggatgaag gataccctga ggattgcata tcttactgaa 300  
gctaaagtcg aaaagttatg tgtatggaat aataaaacgc ctcatgcatg tgccgcaatt 360  
agtatggcaa attggcccag gcccgggaga gctcgataag ttgactacta gggagattga 420  
gcaagttgag ttgttgaaga ggatttacga taagttgact tctgagaagg atgagttgtg 480  
agctctaa 488

<210> 12  
<211> 444  
<212> DNA  
<213> *Escherichia coli*

<400> 12  
gtagagaaaa atattactgt aacagctagt gttgatcctg taattgatct tttgcaagct 60  
gatggcaatg ctctgccatc agctgtaaag ttagcttatt ctcccgcac aaaaactttt 120  
gaaagttaca gagtaatgac tcaagttcat acaaacgatg caactaaaaa agtaattggt 180  
aaacttgctg atacaccaca gcttacagat gttctgaatt caactgttca aatgcctatc 240

```

agtggtgcat ggggaggaca agtattatct tctacaacag ccaaagaatt tgaagctgct      300
gctttgggat attctgcacg cggtgtaaat ggcgtatcat cttctcaaga gttagtaatt      360
agcgctgcac ctaaaactgc cggtaccgcc ccaactgcag gaaactattc aggagtagta      420
tctcttgtaa tgactttggg atcc                                             444

```

```

<210> 13
<211> 141
<212> DNA
<213> Vibrio cholerae

```

```

<400> 13
atcagtaata cttgcgatga aaaaacccaa agtctaggtg taaaattcct tgacgaatac      60
caatctaaag ttaaaagaca aatattttca ggctatcaat ctgatattga tacacataat      120
agaattaaag atgagttgtg a                                             141

```

```

<210> 14
<211> 54
<212> DNA
<213> Vibrio cholerae

```

```

<400> 14
atggtaaaga taatatttgt gttttttatt ttcttatcat cattttcata tgca      54

```

```

<210> 15
<211> 651
<212> DNA
<213> Vibrio cholerae and Escherichia coli

```

```

<400> 15
atggtaaaga taatatttgt gttttttatt ttcttatcat cattttcata tgcagtcgac      60
gtagagaaaa atattactgt aacagctagt gttgatcctg taattgatct ttgcaagct      120
gatggcaatg ctctgccatc agctgtaaag ttagcttatt ctcccgcatc aaaaactttt      180

```

gaaagttaca gagtaatgac tcaagttcat acaaacgatg caactaaaaa agtaattggt 240  
aaacttgctg atacaccaca gcttacagat gttctgaatt caactgttca aatgcctatc 300  
agtgtgtcat ggggaggaca agtattatct tctacaacag ccaaagaatt tgaagctgct 360  
gctttgggat attctgcac cggtgtaaat ggcgtatcat cttctcaaga gttagtaatt 420  
agcgctgcac ctaaaactgc cggtaccgcc ccaactgcag gaaactattc aggagtagta 480  
tctcttgtaa tgactttggg atccgtcgac atcagtaata cttgcgatga aaaaacccaa 540  
agtctaggtg taaaattcct tgacgaatac caatctaaag ttaaagaca aatattttca 600  
ggctatcaat ctgatattga tacacataat agaattaaag atgagttgtg a 651